

# OpenSMTPD for the Real World

## Cheat Sheet

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### 1 ssl

#### 1.1 Documentation: ssl(8)

```
man ssl
```

#### 1.2 Create Self-Signed Certificate

```
# cd $ETC/ssl
cd /etc/ssl

# Generate RSA Certificate
openssl genrsa -out private/server.key 2048

# Generate Certificate Signing Request (CSR)
openssl req -new -key private/server.key \
  -out private/server.csr

# Self-sign CSR
openssl x509 -sha256 -req -days 365 \
  -in private/server.csr \
  -signkey private/server.key \
  -out /etc/ssl/server.crt
```

### 2 smtpctl

#### 2.1 Documentation - smtpctl(8)

```
man smtpctl
```

## 2.2 Encrypt Password for Use with *auth* Command

```
smtpctl password
```

## 2.3 Logging

```
# minimal logging  
smtpctl log brief
```

```
# verbose logging  
smtpctl log verbose
```

## 2.4 Show

```
# show queue messages  
smtpctl show queue  
ebc3909d5c70e447|local|mda|auth|test_user@example.com|user@mail.example.org|\  
user@mail.example.org|1465371066|1465716666|0|10|pending|765|\  
"smtpd: Delivery error: 550 5.1.0 id=12326-07 - Rejected by \  
next-hop MTA on relaying, from MTA(smtp:[127.0.0.1]:10025): \  
550 Invalid recipient"
```

```
# show envelope  
smtpctl show ebc3909d5c70e447
```

## 2.5 Trace *subsystem*

```
# (aliases/virtual/forward expansion)  
smtpctl trace expand
```

```
# (matched by incoming session)  
smtpctl trace rules
```

```
# (incoming sessions)  
smtpctl trace smtp
```

```
# alternatively  
smtpd -dvT expand -T rules -T smtp
```

## 3 smtpd

### 3.1 Documentation - smtpd(8)

```
man smtpd
```

### 3.2 Check Configuration

```
smtpd -nf /etc/mail/smtpd.conf
```

### 3.3 Start in Foreground

```
# with verbose logging  
smtpd -dv
```

```
# with some tracing  
smtpd -dvT expand -T rules -T smtp
```

```
# with all tracing  
smtpd -dvT all
```